Open Access & Data Management Are Do-Able Through Partnerships

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Remember Open Access & Institutional Repositories?

- Did we go through the Gartner Hype Cycle?
- What happened to transforming scholarly communication?
- Or reinventing libraries?
- Lots of institutions installed institutional repositories
- But we didn't build infrastructure, which is perhaps more about when, rather than what

Data Management

- ARL recently released Spec Kit 344 – "Research Data Management Services"
- Three broad categories
  - Consultation
  - Data management plan preparation
  - Actual data archiving, preservation, curation
- Every phase is important, but there is a sequential nature to them

Why?

- Is it required that your library provide research data management services?
- If the demand isn't there, then perhaps not
- But it's clear the Federal Government is paying more attention to data management
- It's also important to be prepared in case researchers start to ask for support

Data Management Layers

Layers	Characteristics	Implication for PI	Implication relative to NSF
Curation	• Adding value throughout life-cycle	• Feature Extraction • New query capabilities • Cross-disciplinary	• Competitive advantage • New opportunities
Preservation	• Ensuring that data can be fully used and interpreted	• Ability to use own data in the future (e.g. 5 yrs) • Data sharing	• Satisfies NSF needs across directorates
Archiving	• Data protection including fixity, identifiers	• Provides identifiers for sharing, references, etc.	• Could satisfy most NSF requirements

Storage	• Bits on disk, tape, cloud, etc.
	• Backup and restore
		• Responsible for:
		  • Restore
		  • Sharing
		  • Staffing
			• Could be enough for now but not near-term future

Creating data infrastructure

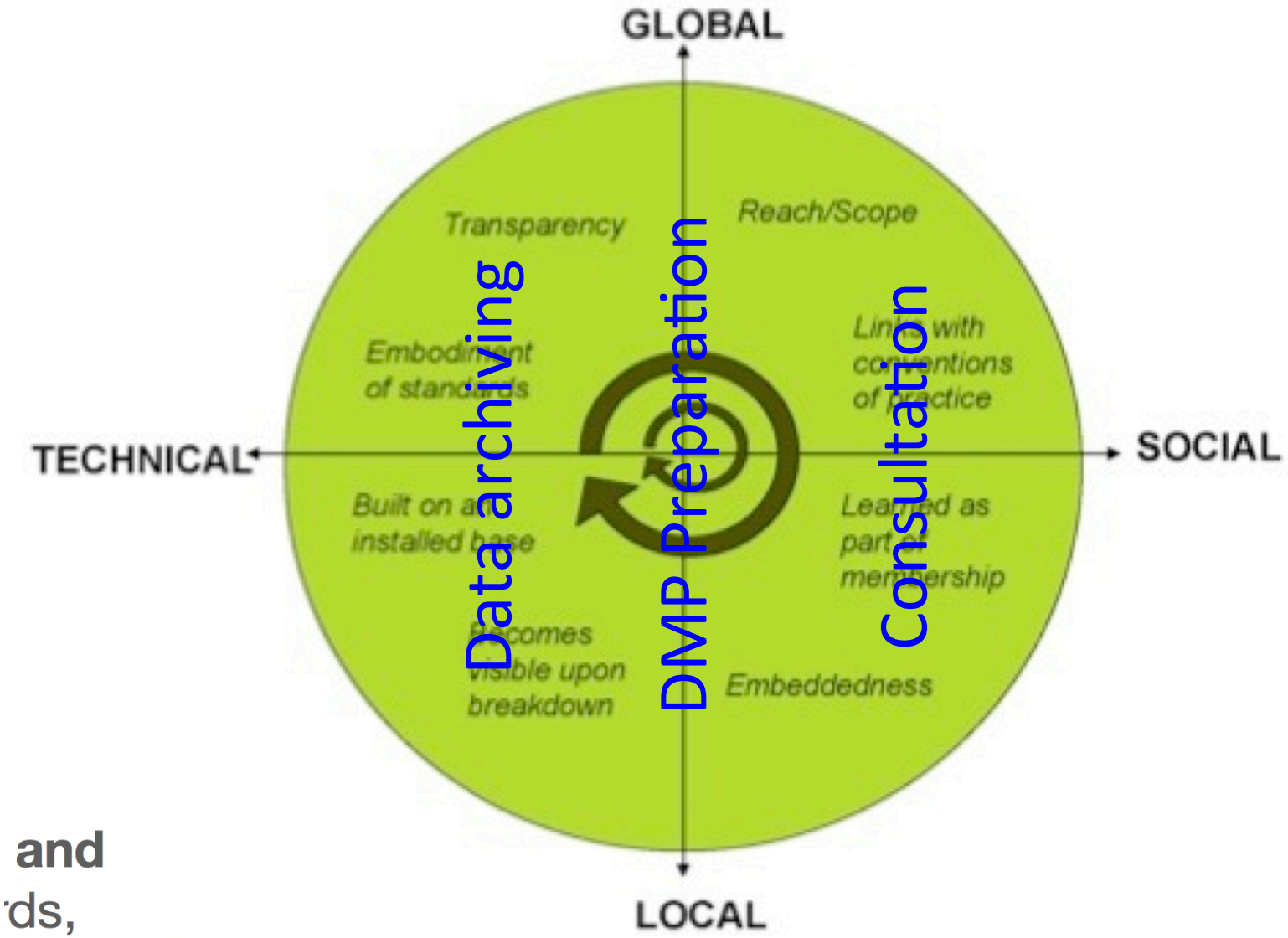

Figure from F. Millerand based on S. L. Star & K. Ruhleder (1996)

Resources

- Many libraries have developed helpful, comprehensive web resources (e.g., MIT, Penn State)
- International resources such as Digital Curation Centre in the UK and the Australian National Data Services in Australia
- JHU Data Management Services - http://dmp.data.jhu.edu
- The DMPTool (https://dmp.cdlib.org) - but think of the "reference interview" implications
- Software (e.g., HubZero, Dataverse or Data Conservancy)

Another Important Resource

- All of you!
- Each of you can tap into expertise, projects, relationships and…
- …Partnerships that you already have on your campuses
- Everyone in this room is part of the social aspects – perhaps the most important cultural aspect – of infrastructure development

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